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VOLUME 3 NUMBER 10	
FEATURES REGULARS	
* Slimline 64 13	* Data Statements 5
A smart new look far your Oit.	* IQ 10
Killed Until Dead 20	Intellectual garace playing.
Game of the month.	* School Room 16
GEOS Expanded 26	Our regular look at educational software.
The latest GEOS software reviewed.	* Letters 18
Byting into the 6510 29	* Contributions 40
Machine Code programming for beginners.	How to write for Your Commodore.
* Plus/4 Software offer 36	* Games Reviews 49
Our latest software for Plus/4 and Ct6 owners	* Listings 80
mow on conselle.	How to type in our programs.
* Coin-Op Conversions 82	* Competition 86
We look at the latest conveniens from the	Win a corners with the Mystery of Arkhern
arcades.	Marior.
* Programmers Packages 88	Software for Sale     101
Utility software from JCL under the microscope.	* Hex Data Entry II 114
* Tech Draw 64 90	Back Page 130
We launch a new software service with a superb	CONTRACTOR OF THE PARTY OF THE
derwieg parkage.	
*Two from Adamsoft 103	GAMES AND
A close look at COBOL and Chartpock for the Ohl and C126.	UTILITIES
	Utility Commands 22
* Filemaster 107 A cheep database for the Oit and C128.	Add now Basic commands to year C126.
*Armife Action 108	* Plus/4 and C84 Cruncher 42
Text Crysther takes a look at how to move and	Compact and speed up your Basic programs.
animate sprites.	* Programmable Function Keys 94
* ED on CP/M 198	Make use of the function keys on your Cot
Mike Roberts are avoid the raysteries of ED on o	* Cale 64 98
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# DATA STATEMENTS

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Plantagers UIII in a makelei character analytic gazen whereit playm can be about the confidence of the confiden

thines, nurriers and necessarial shatesters must use their taking intrade difficult terrain, escape for disagreen, destroy democra and financies the Dark Lord himself. Of Biopeo of monoleymant be not in hybrid disagrees.

The game comes complete in

gitt, relichance and thate cord and a one \$13.90 on the Cold 128.

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trains and live volcance he must collect items to white arciding VENGS MASA' is the first or hand on the advent Tracket and is due for for the C64.

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Edinal Browingham BS 74X: Tab 021 55-1888. Seealla: Alpho House, 18: Carren Sees, Sheffeld ST 473, Teb 8742 18423.

## e Arcade Style

Grandin has homeond back in article games field with remidbury releases - Ar-Kimoda Article Commons fact. Hose date, the star of the Co-Ar-Kimodav, in a nemic has desert need a singuest. In a DD of clearful hasagonal

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sequel childred. Thing showers the Harring deals with the say golden in 1 first encapacie, he mean new stay it factory companter which in producing toys.

It his reprogramming advoras he can allow the layout of recens as more through the factory juleators, which picking up software at his task. Word golden lark is, bustiess, assistant to depter Thing houstiess, assistant to depter Thing

the shops now.

Pithona has announced a month game for the O64 while available in September develobing Advanceers of Man and The She Employer Sedants in Tabled accountant and load bording vampires with a re-

Allished by sheep gamped of damb Entachments measurer sheets. She Vampires, Ween splitting to the Varyangers, Ween splitting to a confirmation to the control of the Company of the Compan

strain promotion." The game yradishle on the CG4/128, the at \$1.90 and disk at £18.0 folia: when Alpha Wasse, 19 Car it, SheSholf S7 478, Tel: 8 23.

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## Slimline 64

Fed up with the way your C64 looks? Give it a suslimline look with a new case, By Staure Cooke

Commodore 64 computers have had the same boards look for a number of poars nown, only with the recent about of the 64C has the total are been decorated by the form of the for

Bodese.

Oncers of what are no doubt, guildy, serandoud, veiline states of the caser can now give their C64s a leight seen look by explaining the case with Similar 64 faces. Evenham Money.

The case is a straight meliocome

the new ent. If your old core was in the same state as mice then the best place for this is probably the bit. Triting the case is simplestly itself and should proved no problems to amount with once a rankwardary knowledge of how to hold and use a

and should present no geobless to suppose with some a real-amentary second problem to hold and use a suredistric.

These seems hold the C64 old rayle and regulate, removing these and serving the keyboard connections from the circuit board spiles the case are its respective. The

indoes few servers a user together.

The Shatine 64 case is a improvement on the old case keyboard is much lower at the making 8 much casier to type haze the high keyboard on the C64 and find that it makes my or sche when typing for a long to complete that this is really per in preference but I do like the in all keyboard. In C64 owners that have revisibles and displain this veriables and displain this

their associated sovicities. This means that you don't have to get your electric drill out to fit them, and you certainly don't have to lute worst hanging out the back like I've neer on many Coff.. The Standard 64 cay is a little wolfer than a normal case. The sara behind the lavelund heigh graphered. Be

treema types on the hope of make hope of make hope of make the hope of the hope of

out out Name: Shinday 64 Supplier Erratum der Mirres, 61 Bridge Swert, Evenham.

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# Letters



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Total Exhat Deal Dead Supplier Accelede (US Golds, Chara Deleterative A./ III. Graphics: A./ III. Planet/Elec. III. III. Value

OOLSWIN





# Utility Commands

This program supplies 128 users with many of the vital commands mixing from Basic 7.0.

When I first acquired my commander 138 with its great here interpreted in the best Indiang best from temporar I also been Indiang for incorporal to my old Coll Basics. Herework, 1867-1861, the extraor deprement that Construction to the indiand a small parties of commander with great my subspectable to the incorporation when it is not incorporate wheth it is now incorporate when it is now incorporate when it is not important to the incorporation of the incorporation of the incorporation in the incorporation i

AND TOTAL WHICH IS DESCRIBED TO THE CONTROL OF THE

Let's get down

to state outputs STATAX ISBOR. If the string is given, then for revise or compares the program is the string and, if it is found, the line is local. The Syntax for FIND is:

ry in quotes.

Note: Anything which is after the quate is included in the statement of if it is a quote.

ice or if you are searching ferent weeks The "nikkcard" ca used in commands since these revised The 'nikkcard' is transi-

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## C128 UTILITY ...

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# GEOS Expanded

Bethely Softworks has now produced an improved version of GEOS plus some utilities packages to outpliment the system. We put them through their p.

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## w

When Californian board flexibly obtained in lanched Groot the Coupleferromains Opening 53 shorts on an consistent of the country of the contraction of the country of the the country of the country o

Just to all seemed lost, Berkley taleased an updated version of 6 and three new packages to put Gowork.

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## Byting into the 6510

things started by creating a loop and find out how the By Barghard-Heary Lehmany

Campaters have established

## ROGRAMMIN

and time characters folgonology the particular assembler yes usually; the characters are to usually; the characters are ray not common certain gaciliations and some assemblers, allow you to use opened manuel paradiction varieties within a But the most importance admit

allow you to use op-code must or paradic-terrisatives within a But the most important rule a label russ not be used belo makes serie, because you can't the accombine to assign different to identical labels in the "cong.

och As Jump-Y

There is an even more useful way is which labels in assembly language responsesing are employed. Some Basic dialons that not the rather poor Basic on Cota above your writes. I have like the COTA

write a line, like GOTO
PENTEGUTINE. In this case
"FRINTROUTINE" a the case
"FRINTROUTINE" a the name for a
sariable which you have to declass,
just like any other variable, at the
beginning of one program with a line.
List FERNTROUTINE = 100.

the LET PROVIDED TIME = 300.

This is then precessed the a other variable, and observe the Barrier strates at the GOTTO has find the value 1000, takes it in a trainment and jumps to it.

Now, as we have learned in the lattice, the microprocessor does

Now, as we have barrood in the last article, the microprocessor does not deal in the mumbers. Instead a deals in encoursy locations, which is known mark of as its program counter. In marrially lastings we saw fees numbers over fee our own benefit, to make our limings more structured, and fee the

ordy for our own benefit, so make out incluse more structured, and for its benefit of the screen odder of the assumbler program, so that it as meet or delete has.

In machine order we would the mixes processor so jump or branch as certified incustion, and the marrolle

certain invalues, and the more allowing in to declare that incarioe the left hand side of the soon tring in the form of a label.

And here an incentive ranking could be a few of a label. And here are more that the sound in the label PHINTLOOD throwing it cut on the left hand in the next receiverity, know at the custom the following increasing the label phintlood in the country of the following internation.

do not recessarily know a location the following surrenties – neline I go to all the excelcounting it out. But there is no reathal because I have set the occasilaction in the first fee by 4915, this wall that reeded. The asset does the rea. or LOOP, a well take the currention address, which is has serviced a street bland PRINTLOOP and take the half PRINTLOOP and take taked and to stoke it is special or minionly, called the symbol taked. Then it goes on acceptable attract, until it comes to fine 14th a progress. There is think a better tracted in contraction (more about this later a lebel which it will promptly ids.

instruction (more about this later) as label which is will promptly ideal as the label which is personally indeed as the label which is personally indeed as become in the supplied called. Now all has to do is an occurrent the vulgar, a worst that a such jump — on begand decidation into the new location, as the microprocurer will know, who is jump the microprocurer will know, who is jump the microprocurer will know, but he microprocurer will know, but he microprocurer will know, and a supplied to the microprocurer will know and a supplied to the microprocurer will be a supplied t

All this time to man-converge store We did not have to remember you another number. We did not even have to calculate that number I have not able to use a new memorable word off our own choice, which even the number of memorable Comparer that with the continuous will wise it with the continuous will wise you will not be the continuous will be not all the continuous will be not all the continuous will be not all the continuous will be not will be not all the continuous will be not all the con

years tridy profess to pur assembly language! Index Registers In line 80 of Linking 1 introduced to the X-register the second of the three prograregisters of the 616. The third

the assembled for the three programmable registers or the OE. The label of the U.S. is a series of the OE. The label of the Series of the Seri

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ction The progr bare The progr LDX into 99, in the

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This is of course as absent laborious may of clean it and woul require 256 kins of assembly as each to fill the 256 serves positions. You may alterably have as raking abat the assembly to our publics may be not least to Basis. We have

construct on finance. Wy three is construct once had not construct of with 1004 and incremental his rather by one with 1004 and incremental his rather by one with early pain through the beginning of the construction of the con

In the 90, the A congress is based with even, which studied of counts for the blate? An This ments in the count in the blate? An This ments in the count is been assured to be countered from 2024 there described to the Computer of the Computer, and if you calculate that communities in some result for an 5 you know as once, what the construction of all about 10 ments are referred to the control of the counter to the counter to the control of the counter to the counter

In the 100, the X-register services of by one, using the semple instruction DNA, which was to Momente the content of the global (by one). "FRINTLOOP and by using a conditional bear streeting from a force about this is disable, which has in the cample.

The program now keeps to kee 99, in line 100, the constants



EDA = Load the accumulator (or A register) with . . . (Input)



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## PLUS/4 AND C64 PROGRAM TO

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# Games Reviews

If you've got a bit of spare cash then a Here's a relection of some of the latest

Organites, 3/30, Graphics, 4/30, Plenelobos, 3/30, False

### MES REVIEWS



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Pale: Valor Houses Sandher Housesonic, 5-30 Paul

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Actor Cores Gastles Landon BCM 500. Teb 51 Eth 5111.
Machine Col.
Originality: 3/18. Playability: 5/10. Graphics: 3/10. Faluer.

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Message: Market for the first firs

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Octavalor: 2/19: Hazabiley: 2/19: Graphics: 2/19: Value.







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players should check it out Prot.

Tenchlise

### SAMURI TRILOGY

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Kendo and Samurai sword fighting. The training is not that only the best student will be accepted and if he man to prefuse he will have his name inserted on Checaman Transitional.

fight a util death or yes have a previour res.

In a practice sight you simply ray out the various movement to a year the rest and a real figure and a real figure on choose your deletines and attack. You can a choose your deletines and attack points. The religious pour year year and a previous pour year year.

obscining your exponents are the same in all the types lighting.

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Well time Occube, cause the this please! Touching The Sammer Tribey, Supplier Countie, Telephone, O.G. 20143, Machin Catt 64/13, Princ 23.00

Originality: 4/10. Graphics 8/10. Physiology 9/15. Value. E/10.



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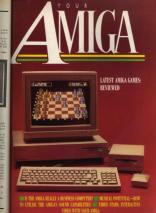
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The one virtue of earthlight software in that it been automatically without both delays. Ayendpen is in this us and after a middly self-ind repening display, an agenting sense appears.

On the innermation it arms.)

perform most general fan without countant recounse i manual. Facilities

The big pain when using a WP on the 64 is the limitation of 40 character sonce width. Software writers used to adopt one of two solutions:



width but you can preview test in its correct form before printing.

The use of What You See Is What You Oet (WYSIWYO) format with the screen acting as a window on the forement.

on the document. Spandport uses the laster option is flat and effective enamer. My person podessuce is for the first approach mattly because it enales the size reading of the document simple. It really a question of use. The author of Seculiars were the size of the continue to the transport of the continue to transport of the transport of the continue to transport of the transport of transpor

package, the usual options for format are available; justifica contering, tabs, word wrap. to move a most quantities of the control of the con

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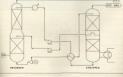
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# Tech draw 64



OUR COMMODORE July 1987

Functions available



This nimple floustout is a companies of few screen drawings,

## READERS OFF

symbols around the sides of the screen basing the course from.

More other is senter to Capp, with the difference that this operation moves the specified area to a rewe point on the servee, deleting the old area; Botate - this function premise a block

this function permits and through any ang I course of notation. mg it in

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host accurate copies of g. It is nather slow, since fine the character to be po forwing in reproduced. to do nam 64 is an extremely perboth sink and tage services, and help even includes gaskings and post sink. Cockers for the programs should be the fewers at the fixes of sinks article, though the accompanied by a threater part of the fixes of this article, though the accompanied by a threater part of the fixes maked gasking to the sinks of the sinks are the threat of the fixes and a sink are threat threat the fixes of the sinks are the sinks of the sinks are t

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As recursored before Forh Draw 64, the first of a series of high-qualless programs that we will be make a wallable to the public, but which is too large and would regard no rose documentation to publish in a magazine as a listing. Warsh this spofor frame offers!

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# Programmable Function Keys

Have you ever wished that you could make more use of the function keys on you've been waiting for, what you've been waiting for, By D. J. Ruber

The function keys on the CO4 a currently uneful for selecting against within a program and are easy to denote. However, on many compacts is a possible to taken strings of characters in neuroes to their strings of the program of the

Commoding daily provide a single was for period and daily and a single was for period and daily provide your Daily appeals and a show you can some up to 30 shoreston, commonship (c), it makes you take 100 some count was how some bolding propositionally keys. It is set franchise keys and an excludible and have being too! You could feet company dails or keys on har could feet company dails or keys on har could feet company dails or keys on har the country of the coun

Getting It In

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The keys FJ to Power all be defined function keys. You can starc a string up to 30 characters in each key. We you prove the key the characters will PROCESSON FIANCEY LONGER

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Rv T. Leasters

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There are consider when it is

# Filemaster

Rv George David

# Arcade Action

Get those sprites moving with these handy areads

By Tony Crowther

As matter how much time and frequency to the property of the purpless that makes to appear to the frequency of the purpless that makes to appear to the amount of the purpless that makes to appear to the amount of the purpless that makes to appear to the amount of the purpless that the purpless that

## Asignotice

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Let's say that in your latest game

Let's say that in your latest game, you named to animate a belonger. The belonger and its different indications could look occurring the the one shown in Figure 1. There are just two unimations in our example so all that we need to do no soup between the two spittee in order to make it look on though the order to make it look on though the order is moving arcend. oic boder for ann that will all an type of animation or interested, the in program is also fedore through, in the animatic process must be placed in novidente, you do that I suggest the control of the last married or refunde of the post of its fine Agral IV is not Agral IV is not Agral IV is not a reason to the in the Agral IV is not a reason to the in the souther in the interest and the souther in the souther in the souther in the interest in the souther in the sout

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in manning, SYS 48172 harm on others keeper to LDAD it for the BSQ DATABLASE is now are using the SPSE ANDHATE contine by following command.

 Start the Animation with the SS 20490 command as detaile above;

ANIM DEMO. This simply depta action of sprikes on the screen proceedes to move a der diagon amone such sprite. This is not warming but it does demonstrate may in which you can not the prope Now that you can change y

Movement

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rection or horizontal direction.

The Busic loader "SPRITE Mill
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### PROGRAMMING ...





POSTER I

Important Note

# PROGRAMMING

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# Cross Reference

The most difficult part of any programmer's work musurely be debugging his product. Cross Reference will hole you sort our your parishles.

By D.J. Zimmer

V midder are used insurations in programs writen by who are floric.

schenging the program, they can preve a real bradative, as yea seek, your not believe to the compart a bring trigg to track there occasions of each and every variable, the consequence of each and every variable. The Cerco Believesco program, has real-leg this task a whole for easier. Choss Believesco works to scanning your Basic program and producing a variable, more followed by a variable, more followed by a compenhensive to set lines in which the particular raziable coverse. You

Getting It

program, concribe fellowing on direct models.

LOAD "your prog" life name of the Basic program to be listed I POKE (PLENLINE) IP 250,0 POKE 44,951 K000+1 LOAD "EXPELY" (BXELY is the control of the Potential Potential ConWhen the four program is coming:

1. Enter Y or N ther Yes or Not when asked "On-your want coapes on printer".

2. If you have requested output to a printer, you will be advaid. "What is your program named." Now, exter the name of the program to be lated. The name will appear at the head of the printed lating.

3. Cross Reference will then begin to your the Busing or you for the second of your the Busing opening. In will indigate

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A On very rare occasions, the

ning: program may have too many varial or too many references for the lone

hands.

If there are two many rariables then, thring step 3, the lines will display the fedorating recount:

Dictionary fall for xxx (xxx is the xariable nume)

statement NN+80 in line 18: NN represents the marrher of variables that the liner-care process.

If there are too many references for a porticular variable show, again during step 3, the force will display the message:

References full for xxx.

If this occurs then look for a statement NR+100 in line III NR converses the number

variable. Change the value 100 axis: accommodate the outra inference

Operation 200-058

C64 PROGRAM III 30

AS INVIOLOS LOS PANE D'ILVE

LINE LEWS-THTMOUPHIATES, NYA

# Hex Data Entry II

n appliesed version of our machine code entry program.

By M.C. Stretton assisted by P.A. Eves

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Data Entry

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### O64/128 M RE

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# Suicide Run

A tight grip on the joystick and fast reactions are required to play this superb C64 game. By D.W. Light

#### Y oz have been urbacky mes necire a basis Clair C3.3 feet I Oreientas.

Oreientus.
Year quest in this fast action game is to cobest as many batteries as possible while designing the translation, this fire and bomb reason that are out to make your tab. difficult.
Satisful Bate is for the Chi

inystick in Port 2. Full is onetred are included in Getting It In

programs. Each of which typed in and saved to child individually. The program ICN and SAR BASIC must using our Syrtax. Checks Listings article far more in

> he typed in using the Hex Data Entry II program.
>
> If you are using camera then the programs should be loaded in the belowing rador.

M/CODE SCREENS MSFRCHR

To HUN the program you single need to LOAD and RUN the program "SUNDER BUN".

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four goes to the person who so think provides the best caption before friday His July. Entries should be yest to: Year

Next Month Have you sent in witty captions to ment competitions? Could you b won a fire? Next month we will

wait until then to find OPS! o have had a rember out program which app

r yes will find the recentry the matter for any article with the pro-

et Lister

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